

WB-57 Isotope Intercomparison Flight Series

late June – early July, 2005

Ellington Field, TX



Objectives:

- Test fly H₂O isotope instruments and intercompare results
- Intercompare water vapor and total water measurements
- Science

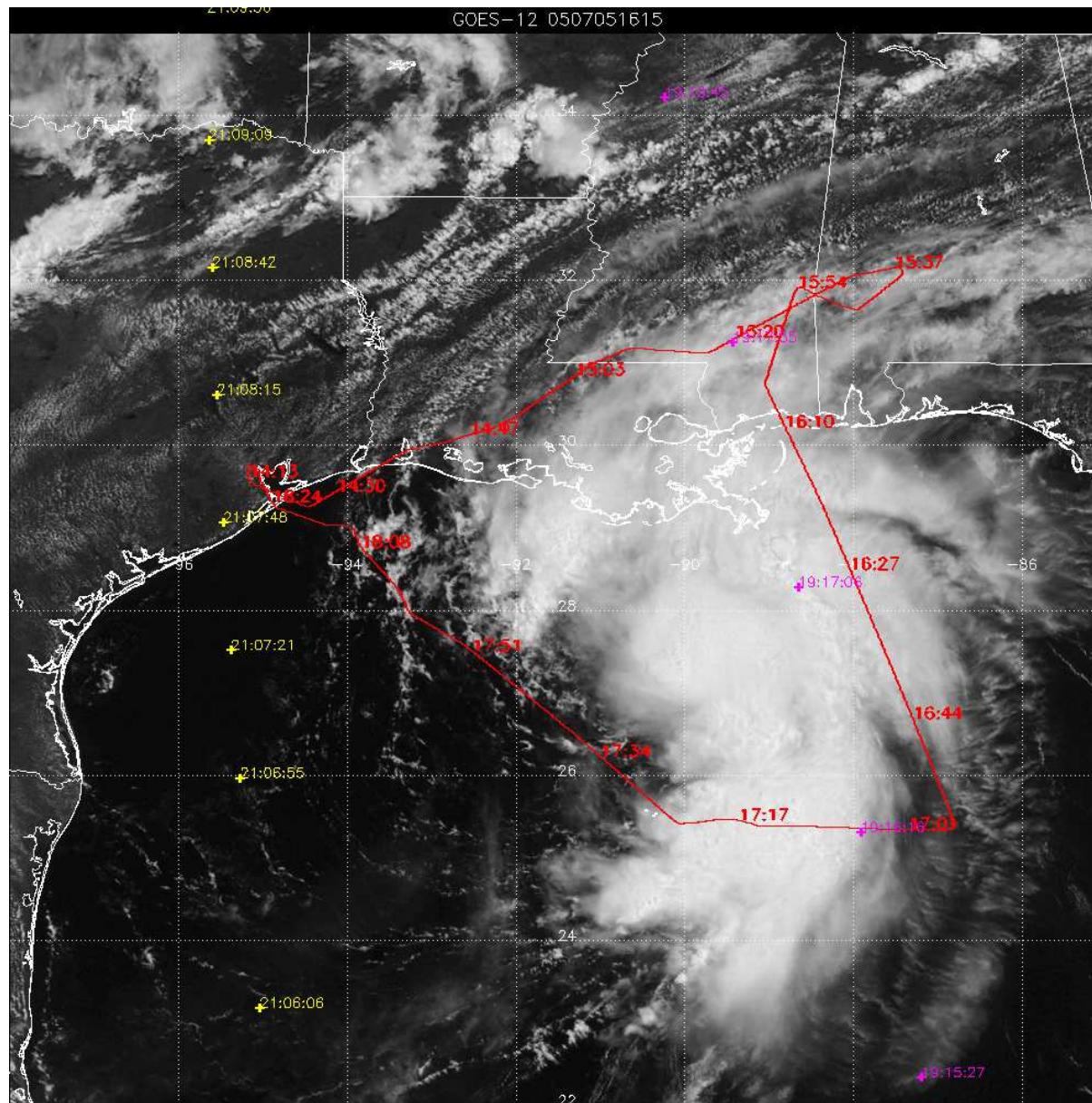
Refugees Moved From Sewage-Contaminated Superdome To Hellhole Of Houston

HOUSTON—Evacuees from the overheated, filth-encrusted wreckage of the New Orleans Superdome were bussed to the humid, 110-degree August heat and polluted air of Houston last week, in a move that many are resisting. "Please, God, not Houston. Anyplace but Houston," said one woman, taking shelter under an overpass. "The food there is awful, and

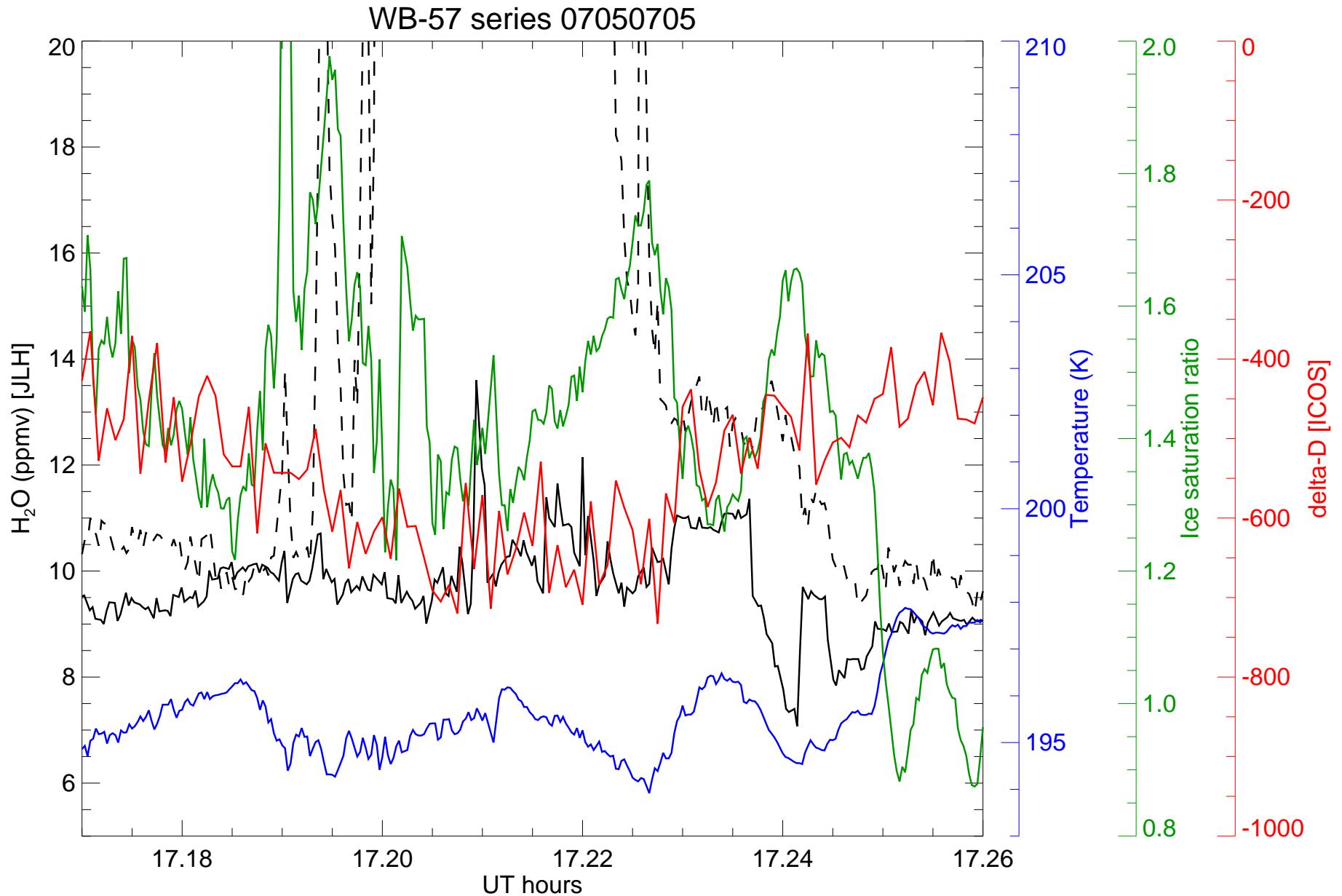
WB-57 Payload

- ICOS – H₂O (vapor), HDO, H₂¹⁸O
- HOxotope – H₂O (vapor), HDO
- ALIAS – H₂O (total), HDO, H₂¹⁸O, etc.
- IRIS – δ -D
- Harvard water vapor – H₂O vapor
- Harvard total water – H₂O total
- JLH – H₂O vapor
- ARGUS – CO, CH₄
- Harvard CO₂ – CO₂
- CAPS – aerosol and cloud size distributions
- MMS – pressure, temperature, and winds
- NOAA P/T – pressure, temperature
- PANTHER – various tracers

July 5 flight – sampling of tropical storm Cindy

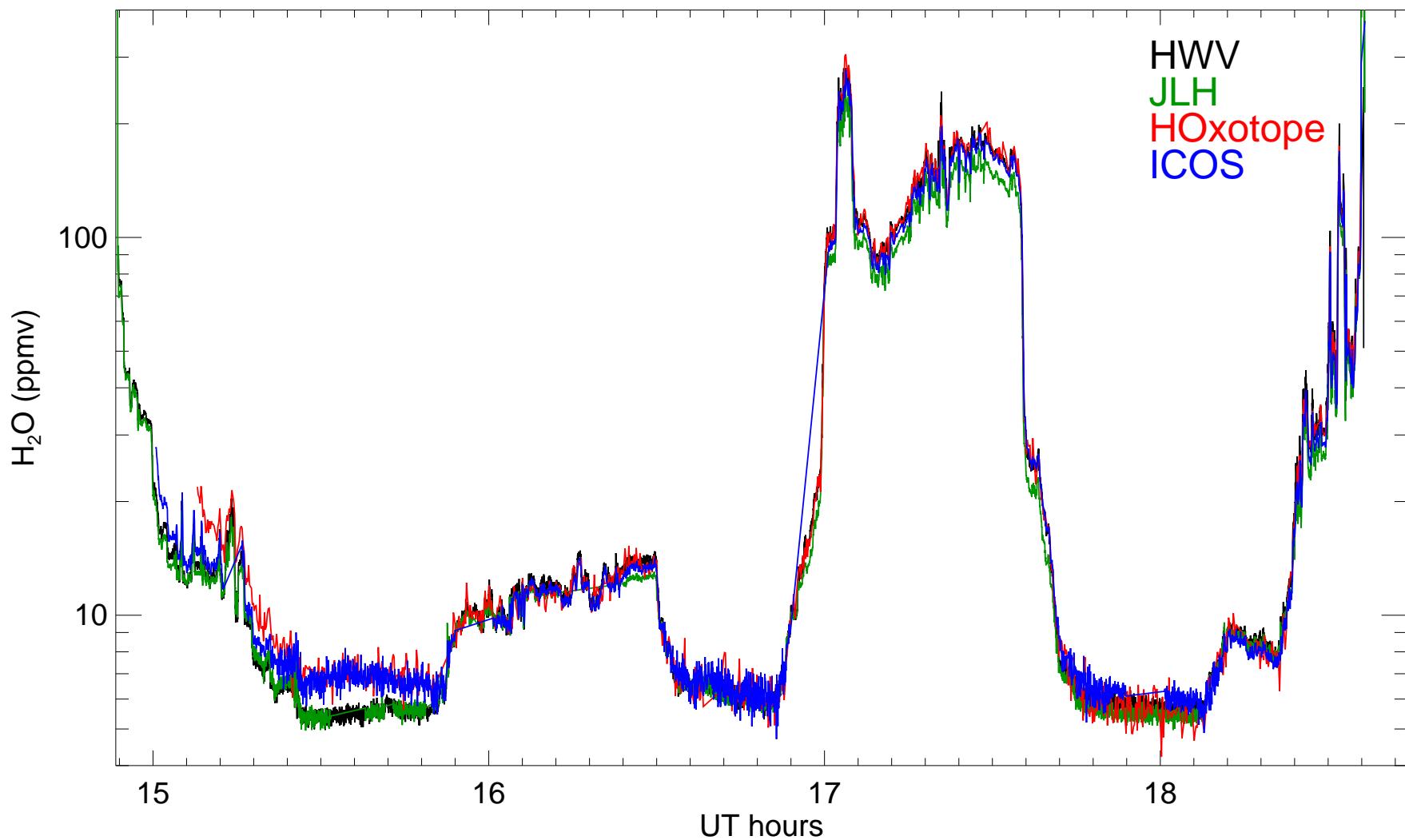


Ice supersaturation in cold anvil cirrus

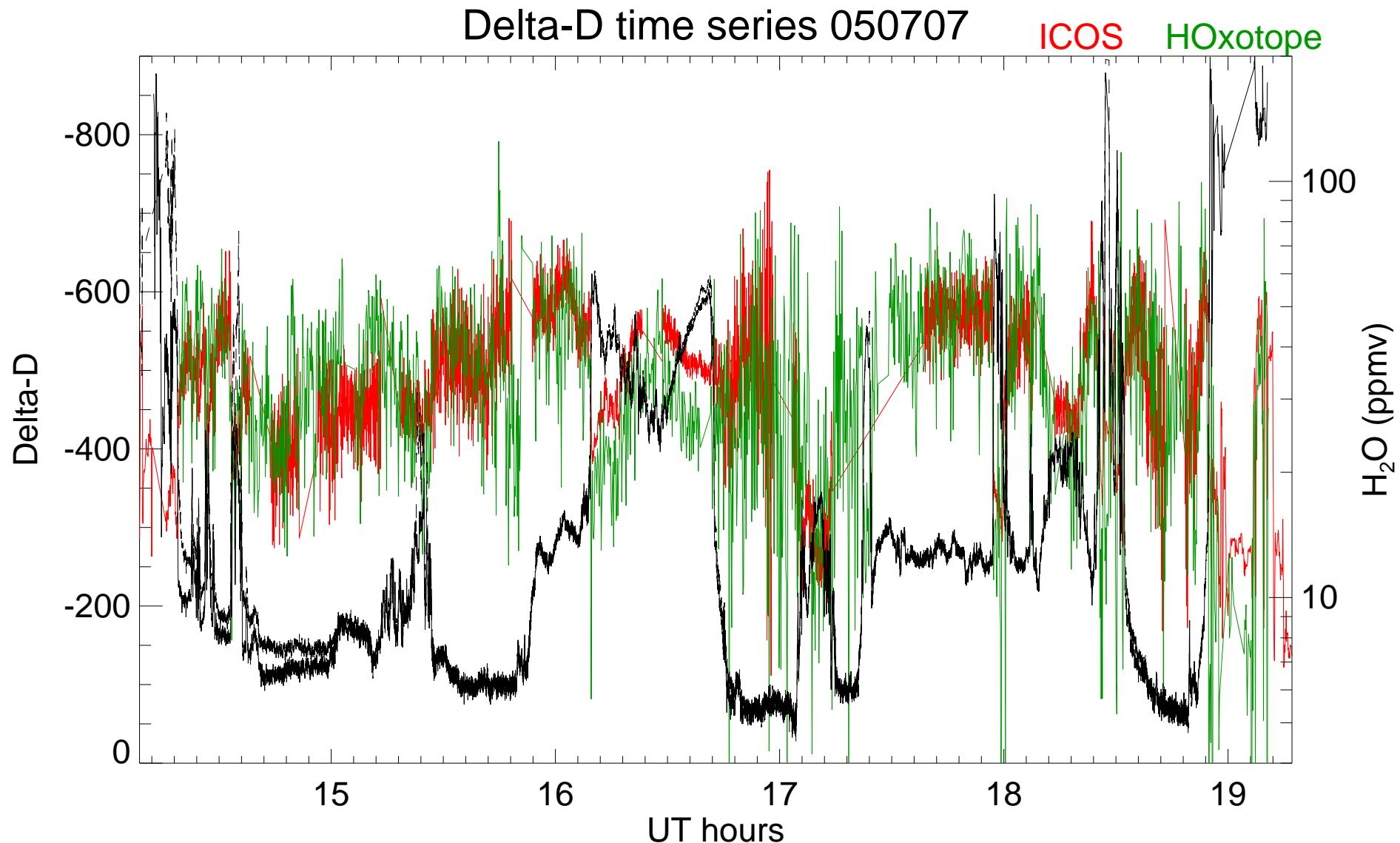


Water vapor measurements

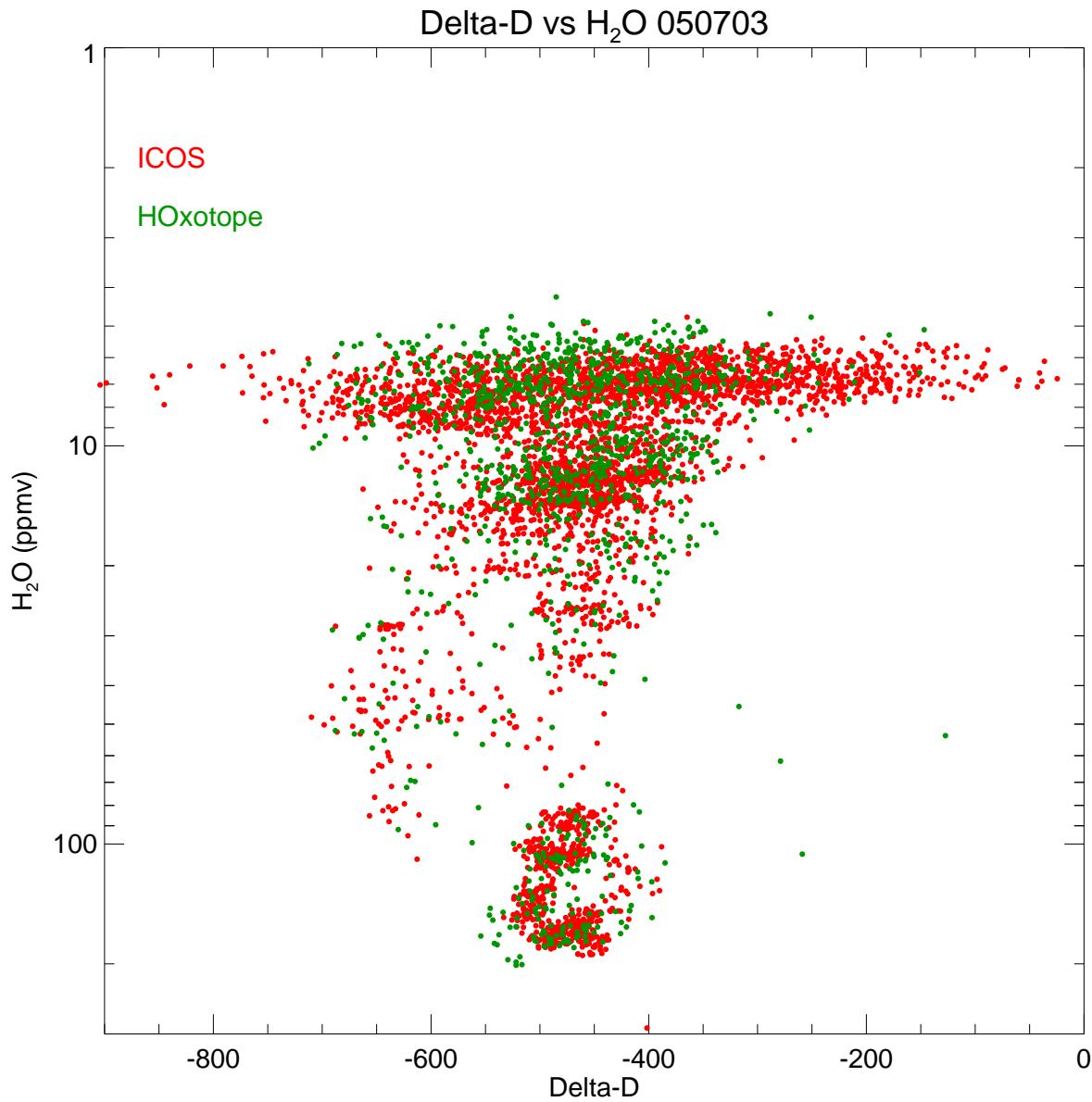
WB-57 time series 07050703



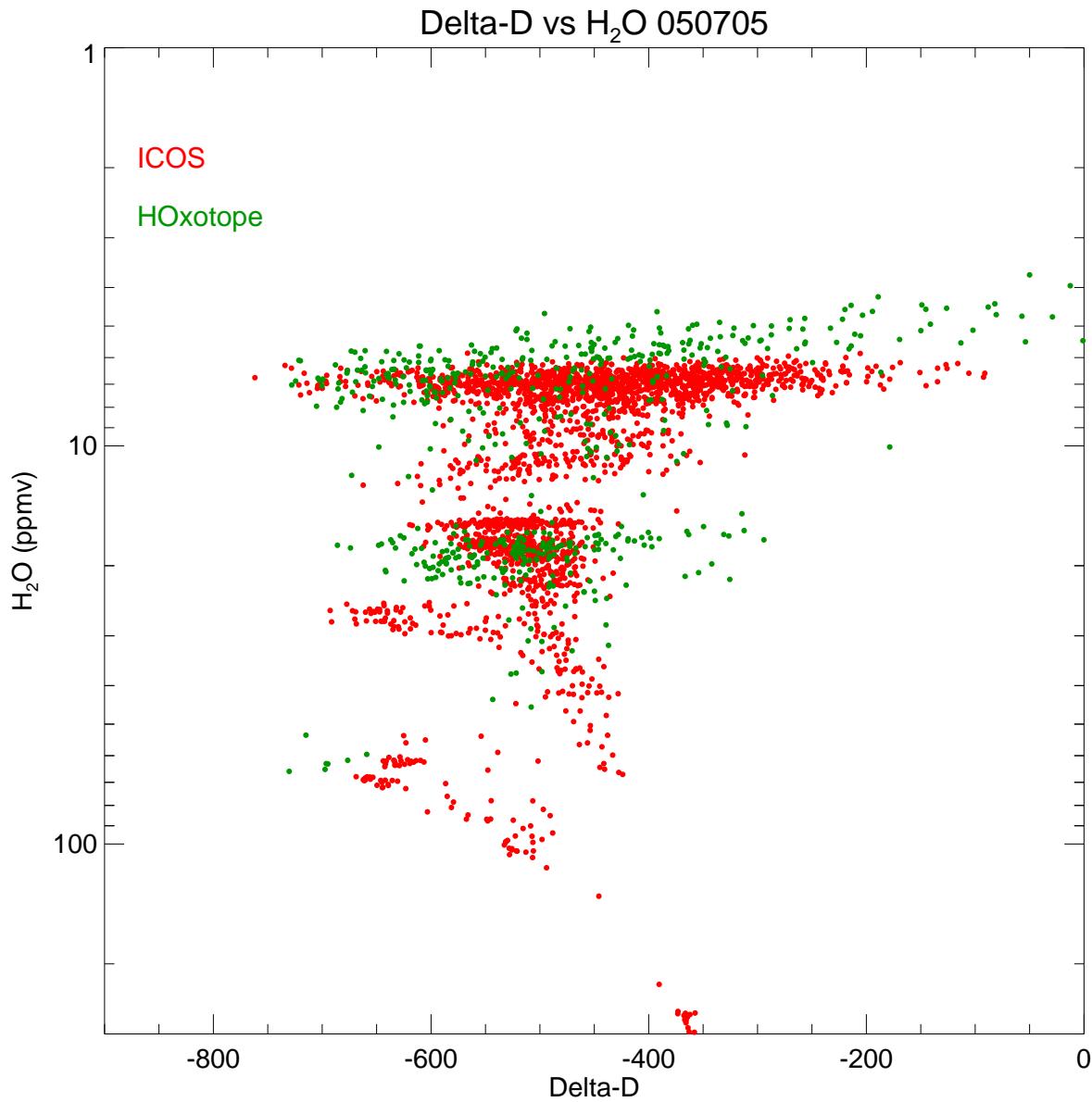
ICOS and HOxotope isotope measurements



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